



Dr. Ormrod shows plants damaged by ozone, on the right, and by metal particles, on the left. In his experiments, he puts healthy plants in a chamber, pumps polluted air into it, and records the damage with a movie camera which takes a frame every three minutes.

BRYAN MCGILL PHOTOS



PLANTING POLLUTION

In his Cunningham Building laboratory, Dr. Douglas Ormrod watches plants wither before his eyes.

This is after he exposes them to air pollution in the form of ozone or particles of metal commonly found drifting in the air from industrial centres.

By watching and recording on film this devastation, which can take only a matter of hours, Dr. Ormrod is devising ways of protecting crops from ozone, which is a pernicious result of automobile exhaust and industrial fallout.

He has been here since October on a year's study leave from the University of Guelph, and his research is being funded by the Ontario Ministry of Agriculture in a programme to stop the despoilation of

the rich and varied crops in the southern part of that province.

He explained that Detroit, Chicago and other such major U.S. industrial centres "are pouring pollutants into the same air that passes over southern Ontario". At the same time, his research has found that ozone together with particles such as zinc, nickel or cadmium heightens pollution damage.

Sensitive to this pollution are such crops as tobacco, peas, tomatoes and cucumbers, and "you can just walk through the fields and see the damage."

This definitely results in yield decreases, but it is difficult to say how much, Dr. Ormrod said.

To counteract this, Dr. Ormrod and his

colleagues at the University of Guelph have created chemicals that when sprayed on crops protect them for a few days at a time, which is usually enough because weather conditions that bring in pollution are predictable.

He is also working on farm management methods that would help the situation and the selection of species that would be more resistant to pollution.

Besides wanting to study with biologists here, Dr. Ormrod came to UVic because the air in Victoria is pollution free. This is ideal for scientists who want to study pollution conditions because there is no need for filters or laboratory control precautions to create pure air that is to be injected with determined samples

of pollution.

Farmers of the lower Fraser Valley could well make use of this research, for Vancouver is "the Los Angeles of Western Canada" as far as smog or ozone goes.

Like Los Angeles, Vancouver and the valley are ringed in by mountains and on certain days when the wind drops and a temperature inversion is created "you can just see the yellowish grey layer of smog when you step off the ferry."

Dr. Ormrod said an enveloping layer of ozone six or seven miles up in the atmosphere envelopes the earth and protects all life from excessive ultra-violet rays.

But when ozone is created by exhaust fumes interacting with sunlight, and stays close to the earth it is a menace to animal and plant life.

There is also concern that the natural ozone belt is being endangered by supersonic jets and the carbons rising from the growing proliferation of aerosol cans.

"There are committees of scientists studying this problem, but they may never know the answer for sure until it may be too late."

On the other hand, there is no evidence that car-created ozone is rising high enough to mix with and strengthen the atmospheric belt.

Dr. Ormrod said the effect of pollution on animal life is being studied by veterinarians at Guelph. Their research has shown there is damage to lung tissue, as well as abnormal functioning of glands and a general upsetting of normal physiology.

THINK TANK FUNDS UVIC

UVic's departments of geography and economics have been allotted a grant of \$43,000 from the B.C. Institute for Economic Policy Analysis to carry out graduate research into facets of B.C.'s economic and social structures.

Drs. Gerald Walter (Economics) and M.A. Micklewright (Geography), who conceived the idea and drafted the application, said it is the first grant to UVic from the institute, a year-old provincial crown corporation often referred to as B.C.'s "think tank".

They were prompted by what Dr. Micklewright termed "insufficient financial support for graduate students, especially those in the social sciences."

With the grant, six graduate students will be selected from applications across Canada for a term of one year in the hope that if the project is successful an on-going arrangement will be made.

"The province, and the country as a whole, stand in need of more M.A. and Ph.D. research, because a lot of the basic outlines of various economic and social policy are dealt with through this kind of research," Dr. Walter said.

"And with this kind of a grant there



A shell collection containing thousands of specimens has been donated to the Department of Biology and the University by Miss Jean Cornell of Victoria. Dr. R.G.B. Reid, who is cataloguing and arranging this valuable endowment with the help of two summer students employed under the B.C. Department of Labour "Careers '75" programme, said it is UVic's first major shell collection and will form the basis for future additions. Here graduate Biology student Larry Fawcett shows some of the shells from the cabinets in the background, and third-year Biology student Susan Porteous analyzes shells taken from British waters about 80 years ago. Most of the collection contains molluscs taken from Florida waters which Miss Cornell acquired in exchange for shells from local waters. Dr. Reid said the collection will be prepared for public display in the fall.

BRYAN MCGILL PHOTOS

are essentially no strings attached. The only string is that the students' work has to be oriented to regional and resource development."

Dr. Micklewright welcomed this type of grant as an opportunity for the university to be utilized in more practical areas and as a benefit to the communities researched and to the province in the development of its legislation.

The community proposed for the research is Prince George. The structure of this community would be studied, as well as the sources of its income, the relationship of industries to it, its ties to other areas, the impact of environmental controls on its economy, and its future as related to the sustaining power of its industries.

For instance, Dr. Walter said, in regard to its major industry, forestry, "there is

reason to believe Prince George will run out of wood. What then?"

Both professors will spend the summer in the Prince George area, making contacts and setting up the context for the graduate seminar being created by the grant.

Each of the successful student applicants will receive a \$4,500 fellowship under the grant with the rest of the monies going to project and travel expenses.

'GRIM' JOB MARKET

Career opportunities for UVic graduates are "really grim" this year, according to Jim Horne, a provincial field worker with the campus Manpower centre.

Mr. Horne recently completed a two-

MEMORIAL FUND

A bursary fund in memory of Christopher Wilks, a UVic student who was killed December 13 in a car accident at the age of 20, has been established by his father, Harry Wilks, 24 Brigadoon Place, a retired businessman.

Mr. Wilks has contributed \$25,000 for the "Christopher E. Wilks Memorial Bursary Fund" which will be held as an endowment fund by the University of Victoria Foundation "to financially assist deserving students to pursue an academic career who otherwise may be forced to postpone or discontinue their studies."

Another \$500 has been contributed by a company with which Mr. Wilks was formerly associated, as well as \$50 from the students of Shoreline Junior Secondary, where Christopher was once a pupil.

As the fund stands, about \$2,000, its net income, will be given out annually, subject to renewal, to needy students.

Christopher, who was in second-year Arts and Science, was active in campus affairs and was considered a first-rate student.

One of his teachers, Francis Leversedge, Department of Geography, in a letter of tribute to the UVic Foundation, said "his

Two distinguished UVic scholars, Dean Jean-Paul Vinay, left, and Dr. John Downing (Education), have been singled out for recognition by other universities. Dean Vinay, a prominent linguist, will be given the honorary degree of Doctor of Letters at the University of Ottawa's convocation ceremonies June 1, 2 and 3 in the Opera of the National Arts Centre. Dr. Downing, an internationally-known expert on reading and the psychology of learning, has been named visiting "Distinguished University Scholar" under the British Council's Commonwealth University Interchange programme after being nominated by the vice-chancellors of the universities of Leicester, London and Bristol. He has also just been elected a Fellow of the Royal Society of Arts. Dean Vinay, who is retiring June 30 from a university teaching career of 38 years and as Dean of Arts and Science, has acquired an international reputation as a linguist and is in demand throughout the world as visiting professor and speaker. A Fellow of the Royal Society of Canada, he has written more than 200 publications in English and French. Dr. Downing is well-known for his research into the Initial Teaching Alphabet (ITA), and he carried out a three-year survey of reading in 14 countries, including Great Britain. Dr. Downing's nomination for Distinguished University Scholar was proposed by the heads of the psychology departments at the British universities, an unusual honor for someone who is a Professor of Education. As a visiting scholar, he will be away from UVic the next year on study leave.



week tour of 59 Vancouver firms — most of them large corporations — inviting them to begin on-campus recruitment here.

He said only four of them will recruit here this month; the Bank of Montreal, Household Finance Corporation, Burrough Business Machines, and the Workman's Compensation Board.

He said that in addition the casual summer job situation in Victoria is "terrible" because of the state of the economy. Last summer it was much better primarily because of the Provincial Department of Labor Initiative '74 programme for students. But this year the programme's budget is being cut from \$30 million to \$20 million, and with salaries being increased to participants, the number of jobs will be reduced.

As for career opportunities, he said the

hiring outlook is extremely poor.

Mr. Horne said that when the major firms are not hiring the first applicants they drop from the list are UVic graduates in preference over those from the University of British Columbia and Simon Fraser University which have engineering and commerce programmes.

He said that in his interview with Vancouver personnel officers a hope was expressed that the economy will soon begin to rebound, which would mean more interest in recruitment at UVic next winter.

Mr. Horne was hired by the Department of Labor in February to work with Manpower in developing career opportunities for students. The cost of his Vancouver trip was footed by the department.

work was thorough and thoughtful reflecting a diligence, independence and ability uncommon at this stage in his programme... In being personally saddened by his untimely death, I am deeply sensitive to all that unfulfilled potential."

Kirk Patterson, former Alma Mater Society President, noted that Christopher was a member of the Representative Assembly and a non-administrative member of the AMS Executive Council between October 1973 and October 1974 and that he also served on a UVic committee to study the feasibility of a recycling programme.

"Chris Wilks was a considerate and selfless person who would go out of his way to be of assistance whenever the occasion arose," Mr. Patterson said.

In a tribute by the Foundation, it was pointed out that "he was known by his many friends at the University as a young man earnestly seeking knowledge of the environment and world affairs. His love for the freedom and beauty of nature led him to many areas of Vancouver Island where he camped with the expertise of a true outdoorsman."

Contributions to the memorial fund can be made through the University of Victoria Foundation.

YOUNG THINKERS

UVic's ninth annual Humanities and Science Symposium will be held today and Saturday for the best young thinkers in the province's high schools.

The symposium is featuring 24 projects or papers selected as the most outstanding from among 210 submissions, according to Dr. Reginald Terry (English), general chairman of the event.

"The idea of the symposium is to introduce high school students to university life and to allow their research to be adjudicated by university standards," Dr. Terry said.

In addition to the 24 presenters, 60 student observers and 20 teachers are being accommodated by the university, which is jointly sponsoring the event with B.C. Telephone Company.

Dr. Terry noted that this year's symposium reflects more interest in science, but that it is still dominated by poetry and creative writing.

Examples of some topics are "Communications Technology and Its Effects on Man's Lifestyle", by Geoff Auchinleck, Point Grey Secondary (Vancouver); "Dr. Bethune & I", by Cheryl Simon, Parkland Senior Secondary (Sidney); "Is there Death?", Irene Klein, Southern Okanagan Secondary (Olive); and "The CIA: the Obsolete Octopus", by Jeremy Webber, Mount Elizabeth Secondary (Kitimat).

Several faculty members will act as

chairman of the various sessions at which the papers will be presented.

The address of welcome today is being given at 9 a.m. by Dr. David Jeffrey (Chairman, English) on "Personal Values and the University".

At 2:30 p.m. a special poetry session will be held under Derk Wynand (Creative Writing). At 7 p.m., Professor Michael Ashwood-Smith (Chairman, Biology) will talk on "Life Below Zero".

The main talk on Saturday will be at 9 a.m. by Dr. Cary Goulson (Education) on "Education: The Future of Our Past".

The visitors will be given a tour of the university as well as double-decker bus rides through Victoria.

FACULTY NEWS

CREATIVE WRITING

The seventh annual edition of *Introductions from an Island* (1975) featuring poems and fiction written by students in Creative Writing is now available through the Department or at the campus Bookstore. Edited by W.D. Valgardson, the anthology contains work of Doug Beardsley, Michael Boissevain, Sonia Croucher, Barbara Curry, Jan Gould, Steve Guppy, Margaret Howat, Theresa Kishkan, Carol Myers, Sharon McMillan, Liborio Nanni, Jim Roberts, Joan Rodgers, Viki Sandiford, Jean Stenhouse, Rick Stevenson and Judy Wayte.

CLASSICS

Three students from the Department of Classics were successful among 90 candidates from 15 universities who were in the annual competitions organized by the Classical Association of Canada. In the competition on Classical Mythology, Dorothy M.M. Wolff won a second prize

of \$50, and Jack D. English, for fifth place, a book prize. Both were taught by Dr. P.L. Smith in the Classical Studies 200 course.

In the Greek Sight Translation competition, Robert O. Hunter, who had been studying Greek for only 10 months, won an honorable mention and a book prize.

PHILOSOPHY

Dr. Charles B. Daniels' article, "Personal Identity", which originally appeared in the *American Philosophical Quarterly*, has been reprinted in an updated, expanded form in the collection *Philosophers in Wonderland: Philosophy and Psychological Research*, edited by Peter A. French.

ENGLISH

Anthony Edwards has had an article accepted by *Medieval Studies* entitled "The Significance of Lydgate's *Fall of Princes*".

CHEMISTRY

In a candidacy seminar, Carl Wong will speak on "Photochemistry of Co-Ordination Compounds" on May 14 at 1:30 p.m. in Elliott 062.

GEOGRAPHY

Dr. J.D. Porteous has been awarded a \$2,500 research grant by the Canada Council for a project dealing with the impact made by foreign entrepreneurs on the society and landscape of Easter Island between 1860 and 1960.

HISTORY

Dr. Jan Kupp has been allotted a \$1,500 Canada Council research grant for a project on Dutch documents relating to the early North American fur trade and cod fisheries and on Labrador and the Strait of Davis.

THESIS EXAMS

Forthcoming oral examinations by the Faculty of Graduate Studies are:

Anthony Bancroft, M.F.A. candidate in Theatre, "A defence of the production of 'The Caretaker', by Harold Pinter, which took place at the Phoenix Theatre, March 26 - 29," on May 20 at 10:30 a.m., Room 16, "Q" Building.

William Wakefield, M.A. Candidate in Education, "The Relationship between Teacher Awareness of Pupil Personality Variables and Standardized Academic Achievement", on May 26 at 2 p.m., MacLaurin 225.

CORRECTION

Last week's edition of *Around The Ring* incorrectly reported the days the UVic Bookstore will be renting out regalia for Convocation. Instead of fittings taking place each Wednesday, Thursday and Friday of this month, they will only be during the week preceding Convocation. Times will be between 5 and 8 p.m. May 28, 29 and 30 and 9 a.m. to 1 p.m. May 28.



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